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AMENDMENTS TO THE CLAIMS

1. - 11. (Canceled)

12. (Currently Amended) A display apparatus comprising:

storage means for storing a control program having a plurality of instructions and each symbol data for displaying a <u>plurality of symbol symbol</u>-related to each of said plurality of instructions:

control means for controlling control target equipment electrically connected to said display apparatus by executing each of said plurality of instructions;

display means for displaying an image;

first display control means based on the symbol data corresponding to the instructions the instruction-executed by said control means for causing the symbols the symbol-corresponding to said executed instructions instruction-to be displayed in a first display region in said display means:

video signal input means for receiving an input of video data generated based on a picked-up image of said control target equipment for each of the instructions;

video data storing means for storing said video data;

relation means for relating the symbol data corresponding to the instructions the instruction—executed by said control means to the video data stored in said video data storing means:

detection means for detecting designation of a symbol associated with a signal indicating abnormality of the control target equipment among the plurality of symbols the symbol displayed

in said first display region; and

second display control means responsive to detection of said designation for causing a moving image to be displayed in a second display region in said display means based on the video data related to the symbol data corresponding to the symbol displayed in said first display region.

wherein the second display control means displays the moving image of at least one of a time period from a predetermined time previous to said detection and a time period to a predetermined time after said detection.

13. (Currently Amended) The display apparatus according to claim 12, further comprising:

timer means for measuring a time, wherein

said relation means relates the symbol data corresponding to the symbols the symbol displayed in said first display region to the video data input through said video signal input means based on the time measured by said timer means.

14. (Currently Amended) The display apparatus according to claim 13, further comprising:

state signal input means for receiving an input of a state signal indicating a state of said control target equipment;

log generation means for generating log information representing history of an operation

of said control target equipment based on said time and said state signal; and

log storing means for storing said log information, wherein

said relation means relates the symbol data corresponding to the symbols the symbol

displayed in said first display region to said log information.

15. (Currently Amended) The display apparatus according to claim 14, wherein

said state signal input means receives an input of said signal a signal-indicating an

abnormality in said control target equipment.

said log generation means generates log information indicating an abnormality in said

control target equipment when said signal indicating an abnormality is input,

said relation means relates a time at which said log information indicating an abnormality

is generated to said log information indicating an abnormality for storage in said log storing

means, and

said first display control means causes the symbols the symbol to be displayed in said

first display region by making a difference between an output form of the symbol data for

displaying the symbols corresponding to the symbol corresponding said log information

indicating an abnormality and an output form of the symbol data for displaying the symbols the

symbol-corresponding to a normal state in said control target equipment, so that a first display

manner in said display means of the symbols the symbol corresponding to said log information

indicating an abnormality differs from a second display manner in said display means of the

symbols the symbol corresponding to said normal state.

16. (Currently Amended) The display apparatus according to claim 15, wherein

said detection means detects designation of the symbols the symbol-displayed in said first

display manner,

said display apparatus further comprising:

reading means for reading time corresponding to said log information indicating an

abnormality from said log storing means based on detection of said designation; and

reproduction means for reading video data corresponding to a predetermined period of

time from said read time, wherein

said second display control means causes a moving image to be displayed in said second

display region based on the video data read by said reproduction means.

17. (Previously Presented) The display apparatus according to claims 16, wherein

said display means displays said first display region and said second display region in the same

screen.

18. (Currently Amended) The display apparatus according to claim 15, wherein

said detection means detects designation of the symbols the symbol displayed in said first

display manner,

said display apparatus further comprising:

reading means for reading time corresponding to said log information indicating an

abnormality from said log storing means based on detection of said designation; and

reproduction means for reading video data corresponding to a period of time from

predetermined time previous to said time to predetermined time subsequent to said time, wherein

said second display control means causes a moving image to be displayed in said second

display region based on the video data read by said reproduction means.

(Previously Presented) The display apparatus according to claim 18, wherein said 19.

display means displays said first display region and said second display region in the same

screen.

20. (Currently Amended) The display apparatus according to claim 15, wherein

said first display control means controls said display means such that a plurality of

symbols are displayed in said first display region in said first display manner,

said detection means detects designation of any symbol among said plurality of symbols,

and

said second display control means includes

time data reading means for reading each time corresponding to each of said plurality of

symbols from said log storing means,

video data reading means for reading video data corresponding to a predetermined period

of time from said read each time for each of said plurality of symbols from said log storing

means, and

reproduction control means for causing a moving image to be displayed in said second

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display region in time order or backward in time from said time corresponding to any symbol of

which said designation is detected based on said read video data.

(Previously Presented) The display apparatus according to claim 20, wherein said 21.

display means displays said first display region and said second display region in the same

screen.

22. (Previously Presented) The display apparatus according to claim 12, wherein

said video signal input means receives an input of each video data generated based on an

image of said control target equipment picked up by each of a plurality of image picking-up

means.

said relation means relates each symbol data corresponding to each of a plurality of

instructions executed by said control means to said each video data, and

said second display control means causes each moving image to be displayed in said

second display region based on said each video data.

(Currently Amended) A computer-readable recording medium storing thereon a 23.

program causing a computer to function as a display apparatus, said program causing said

computer to execute the steps of:

reading a control program having a plurality of instructions and each symbol data for

displaying a plurality of symbols symbol-related to each of said plurality of instructions from

storage means for storing data;

controlling control target equipment electrically connected to said computer by executing

each of said plurality of instructions;

based on the symbol data corresponding to the instructions the instruction executed at

said controlling step, causing the symbols the symbol corresponding to said executed instructions

instruction to be displayed in a first display region in display means for displaying an image;

receiving an input of video data generated based on a picked-up image of said control

target equipment for each of the instructions;

relating the symbol data corresponding to said executed instructions instruction-to said

video data:

storing said video data in said storage means;

detecting designation of a symbol associated with a signal indicating abnormality of the

control target equipment among the plurality of symbols the symbol-displayed in said first

display means; and

in response to detection of said designation, causing moving images relating to the

designated symbols a moving image to be displayed in a second display region in said display

means based on the video data related to the symbol data corresponding to the designated

symbols symbol-displayed in said first display region,

wherein the second display region displays the moving image during a period of at least

one of prior to and after said detection.

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